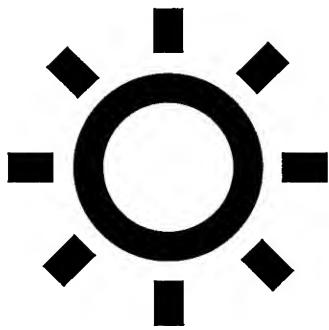


29PT8302

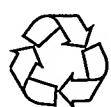


tv



**PHILIPS**

Printed on recycled paper



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## Operation

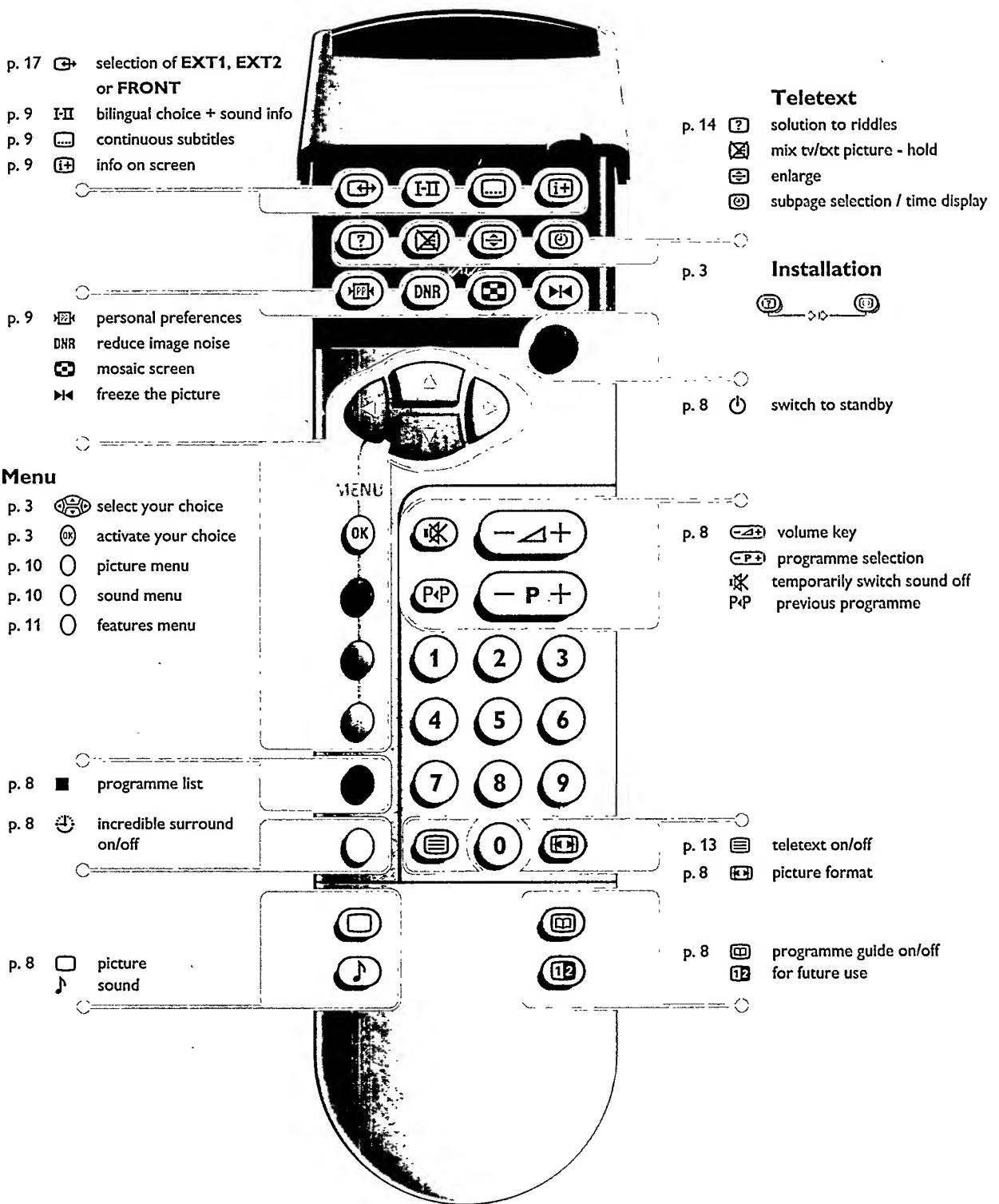
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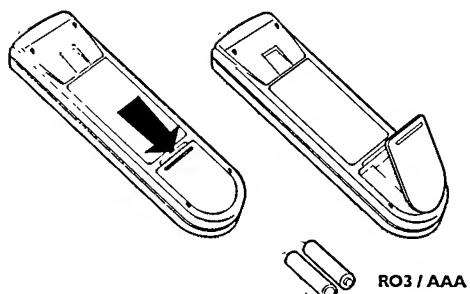
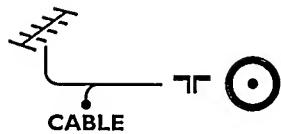
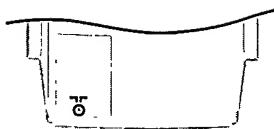
*easy* 

EasyLink features are based on the "one touch operation" approach. This means that a sequence of actions are executed at the same time in both the television and the video cassette recorder, **provided both are fitted with the EasyLink function** and connected with the eurocable supplied.

# Your remote control



# Preparation



**1 Place the TV on a solid surface.**

For ventilation, leave at least 5 cm free all around the TV.

To prevent any unsafe situation, do not place any objects on top of the TV.

**2 Insert the aerial plug tightly into the aerial socket at the back of the TV.** You can improve the picture quality by using the suppressor-aerial cable supplied.

**3 Insert the mains plug in the wall socket with a mains voltage of 220V - 240V.**

**4 Remote control:** Remove the cover of the battery compartment. Insert the 2 batteries supplied (type R03G-1,5V).

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries exhausted batteries may not be disposed of with your household waste. Please ensure you dispose of exhausted batteries according to local regulations.

**5 Switch TV on :** Press the power switch on the front of your TV. A green indicator and the screen light up.

If the indicator is red, press the key on the remote control.

The green lamp blinks every time you press a key on the remote control. When you switch on your set **for the first time**, the menu **LANGUAGE** automatically appears on the screen. Alternatively the explanation appears in the different languages. Choose your own language and press the **OK** key on the remote control. Go on to page 4.

# Installation

## Select the INSTALLATION menu :

**1** Open the door of the remote control.

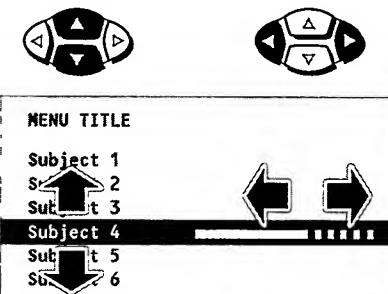
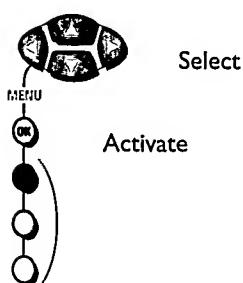
**2** Press and at the same time.

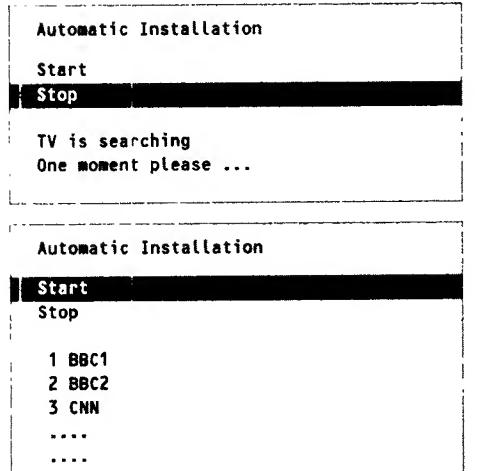
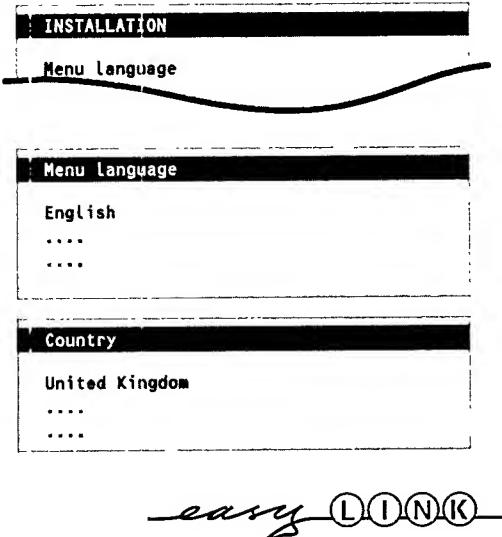
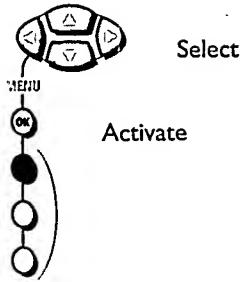
## To use the menus

**1** Use the keys to select a menu item.

**2** Use the **OK** key to activate.

**3** Use the red **MENU** key to return or to switch menu off.





## Store TV channels

### Select the menu language and country

First, you have to select your language and your country.

- ① Select the **Menu Language** and press the **OK** key.
- ② Select your language and press the **OK** key.
- ③ Select **Country** and press the **OK** key.
- ④ Select the country where you are now located and press the **OK** key.  
Select **Other** when none of the countries applies.

You can now search for and store the TV channels in two different ways: using **automatic installation** or **manual installation** (tuning-in channel by channel).

- Select your choice and press the **OK** key.

If the TV is connected to a video recorder with the **EasyLink** function, the TV automatically transfers the language and country selections to the video recorder. The message **EasyLink : Downloading .....** appears on the screen

### Automatic installation

In the Automatic Installation menu select **Start** and press the **OK** key to activate the searching. All TV channels are searched for and stored automatically.

If a cable system which broadcasts ACI (Automatic Channel Installation) or a TV channel transmitting a teletext page with the frequencies and programme names of all the TV channels which can be received, is detected, the search is stopped and a programme list appears.

The programme list is automatically filled with all the programme numbers and names of the TV channels transmitted.

*It is possible that the cable company or the TV channel displays a broadcast selection menu. Layout and items are defined by the cable company or the TV channel. Make your choice with the keys and press the **OK** key.*

If the TV is connected to a video recorder with the **EasyLink** function, the TV automatically transfers the stored TV channels to the video recorder. The message **EasyLink : Downloading Presets ...** appears on the screen. The programme list of the video recorder is now equal to the one of the TV.

### To exit from the menu

- Press the red **MENU** key.

Go on to page 6.

Manual Installation

(Selection Mode)

System

Programme No.

Search

Store

## Manual installation

Searching for and storing TV channels is done channel by channel.  
You must go through every step of the Manual Installation menu.

**Selection Modé** is only present and lights up if the country you selected also offers the channel option (C-channels for aerial channels, S-channels for cable channels).

You can choose either channel or frequency mode.

### ① Select the TV system

- Select the country or part of the world from where you want to receive the TV channel.
- If you are connected to a cable system, select your country.

### ② Enter the programme number with the digit keys.

### ③ Search for a TV channel

The frequency or the channel number increases until a TV channel is found.  
In case of poor reception, you can improve the reception by adjusting the frequency with the  key.

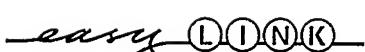
#### Direct selection of a TV channel

If you know the frequency, or the C- or S-channel number, enter it directly with the digit keys 0 to 9.

Ask for a list from your cable company or dealer, alternatively consult the Table of frequencies on the inside backcover of this handbook.

### ④ Store steps ① till ③

- Select **Store** and press the **OK** key.



After the new or extra TV channel has been stored, the TV automatically transfers that (those) TV channel(s) to the video recorder provided with the EasyLink function.  
The message : **EasyLink : Downloading Presets ...** appears on the screen. The programme list of the video recorder is now equal to the one of the TV.

Repeat every step to store another TV channel.

#### To exit from the menu :

- Press the red **MENU** key.

INSTALLATION
Menu Language
Country
Automatic Installation
Manual Installation
<b>Give Name</b>
Reshuffle
Favourite Programmes
CONNECTION DIAGRAMS
SETUP
 <b>Give Name</b>
EXT1
EXT2
FRONT
<b>0</b>
1 BBC1
2 BBC2
3 ....
4 ....
5 ....

RESHUFFLE
EXT1
EXT2
FRONT
<b>0 BBC1</b>
1 CNN
2 BBC2
3 ....
4 ....
5 ....

FAVOURITE PROGRAMMES
0 ....
1 ....
<b>2 ....</b>
3 ....
4 ....
5 ....
No
Yes
Yes
No
No
Yes

## Give name

It is possible to change the name stored in the memory or to assign a name to a TV channel which has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1,... Between 99 and 0 you can also name any peripherals that are connected.

- ① Select **Give Name** in the **INSTALLATION** menu and press the **OK** key.
  - ② Select the programme number.
  - ③ Press the **OK** key.
  - ④ Select the character with the **↔** keys.
  - ⑤ Select the following position with the **↑↓** keys.
  - ⑥ Select the following character.
  - ⑦ Press the **OK** key when finished.
  - ⑧ Press the red **MENU** key to return to the **INSTALLATION** menu.
- A space, numbers or other special characters are located between Z and A.

## Reshuffle the programme list

According to your preference you can change the order of the stored TV channels.

- ① Select **Reshuffle** in the **INSTALLATION** menu and press the **OK** key.
- ② Select the programme number you want to change.
- ③ Press the **OK** key.
- ④ Select the new number.
- ⑤ Press the **OK** key.  
Repeat the operation until all TV channels are allocated as you like.
- ⑥ Press the red **MENU** key to return to the **INSTALLATION** menu.

## Select Favourite TV channels

After leaving the installation you can browse through the TV channels by pressing the **↔** key. Only those TV channels which are in the favourite list will be displayed. The non-favourite TV channels can still be selected with the digit keys.

- ① Select **Favourite Programmes** in the **INSTALLATION** menu and press the **OK** key.
- ② Select your favourite programme number.
- ③ Select **Yes** or **No**.
- ④ Repeat for every TV channel you want to change into a favourite or a non-favourite TV channel.
- ⑤ Press the red **MENU** key to return to the **INSTALLATION** menu.

If the TV is connected to a video recorder with the **EasyLink** function, the TV automatically transfers the reshuffled or modified TV channels to the video recorder. The message **EasyLink : Downloading Presets ...** appears on the screen. The programme list of the video recorder is equal again to the one of the TV.

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# Connection diagrams

See Connect Peripheral Equipment, p. 15.

## Install TV Setup

- ① Use the keys to select the menu item.
- ② Use the **OK** key to activate.
- ③ Use the red **MENU** key to return or switch menu off.

### CD-i / Photo CD

See Connect Peripheral Equipment, TV and a CD-i / Photo CD, p. 16.

### Define Decoder/Descrambler programme numbers

If you have connected a decoder or a descrambler, see p. 15, you can define one or more programme numbers as decoder programme numbers.

- Press the keys to select **Off**, **EXT1** or **EXT2**, the euroconnector where you connected your decoder.
- Select **Off** if you do not want the selected programme number being activated as a decoder programme number.

Select **EXT2** when the decoder is connected to your EasyLink video recorder. When selecting the decoder, the message **EasyLink: Downloading Presets....** appears on the screen.

### Information Line

After the selection of a TV programme or after pressing the key on the remote control, a TV channel which broadcasts teletext may transmit the name of the TV channel or the programme name or another message which appears briefly in the information line on the screen.

When selected **Off**, the information line will only appear after pressing the key, and not after the selection of a TV channel.

### Installation

Select **Installation** and press the **OK** key to return immediately to the **INSTALLATION** menu.

### To exit from the menu

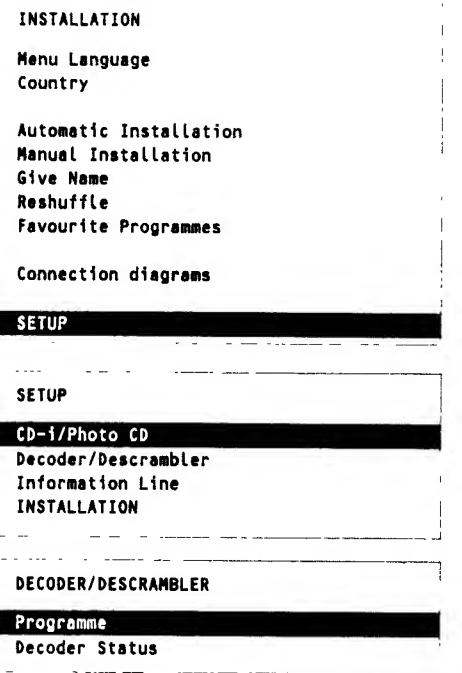
- ④ Keep the red **MENU** key pressed.

## The keys on top of the TV

Should your remote control be lost or broken you can still change some of the basic picture and sound settings with the keys on top of the TV.

- Press the **MENU** key repeatedly to select **Volume**, **Brightness**, **Colour**, **Contrast**, **Treble** or **Bass**.
- Press the - or + key to regulate the selected adjustment.  
When the menu adjustment is not displayed, the - and + keys enable you to select the TV channels.

*The selected adjustment automatically switches off when after 10 sec. no action has been executed.*



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### Standby

The TV set is switched off and the red indicator lights up.  
To switch the TV on again, press  or the digit keys.

Your TV consumes energy in the standby mode.  
Energy consumption contributes to air and water pollution. We advise to switch off your TV overnight instead of leaving it on standby. You save energy.

### Mute key

Temporarily interrupt the sound or restore it.

### Previous programme

The previously selected TV channel is displayed.  
The  indication has a video recorder function..

### Programme list

To select the programme list.

Select the desired TV channel with the  or  keys and press **OK**.

### Incredible Surround

In **MONO** sound mode, this feature, when switched on, enables you to hear a spatial effect of sound.

In **STEREO** sound mode, when **Incredible Surround On** is selected, it seems as though the loudspeakers are spread further apart from one another.

### Smart Controls keys

To select predefined picture and sound settings.

#### Smart Picture ( key)

Each time it is pressed, a different picture setting is selected, corresponding with a specific predefined setting of Contrast, Colour, Sharpness and Contrast Plus.

#### Smart Sound ( key)

Each time it is pressed a different sound setting is selected, corresponding with a specific predefined setting of Treble, Bass and Loudness.

**Personal** refers to the personal preference setting of picture and sound which you have stored with **Store PP** in the Features menu, p. 11.

The smart picture and sound settings are set to **Manual** until the personal adjustments are stored.

## Use of the remote control

### Volume

The volume is adjusted. If you want to store the volume adjustment in the memory, see the Features menu, **Store PP**, p. 11 to store the same volume adjustment for all the stored TV channels.

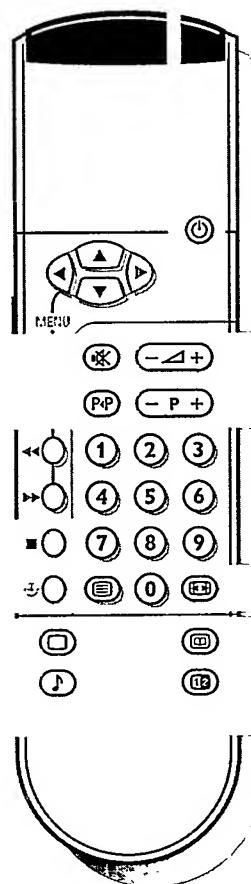
### Programme selection

To browse through the TV channels activated in the Favourite Programme menu. See p. 6.

### 0 / 9 Digit keys

To select a TV channel.

For a two digit programme number, enter the second digit within 2 seconds.



### Picture format

Press this key to switch to a wide screen format. A black bar appears at the top and the bottom of the screen.

The TV has an automatic switching function via eurocable. Video recorders or programmes carrying special signals will automatically switch the TV to the correct screen format, if connected with a eurocable.

### 12 For future use

#### Programme Guide

TV channels which broadcast teletext also transmit a page with the programme guide of the day. For each TV channel you can store the programme guide page which can be selected directly with the  key.

- Press  to switch on teletext and select the proper programme guide page.
  - Press  for 2 seconds to store the selected page.
  - Press  again to switch off teletext.
- Every time you press the  key, the programme guide page of the selected TV channel will be available. Press  or the  key to run through the previous or the following pages and subpages. Press the  key again to switch the page off.

For every TV channel the programme guide page should be stored separately.

#### **Select peripherals**

Press this key repeatedly to select **EXT1**, **EXT2** or **FRONT**, according to where you connected your peripherals (see p. 17).

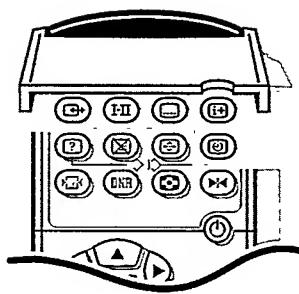
#### **I-II Bilingual choice and sound mode selection**

Press this key  
• to switch from **Stereo** to **Mono** sound, in case of stereo transmission, or from **Digital Sound** to **Digital Sound available**, in case of digital transmission;  
• to choose between language I (Dual I) or language II (Dual II), in case of bilingual transmission.  
The setting is stored for each TV channel separately.

#### **Time display**

The time, downloaded from the TV channel (with teletext) stored on programme number 1 or under the lowest favourite programme number, is displayed on the screen.

*This function is not available when continuous subtitles have been switched on.*



#### **Personal Preferences**

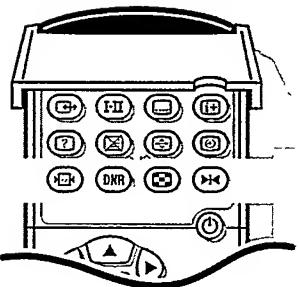
Restore picture and sound settings, stored in the features menu (see p. 11).

#### **DNR Dyn. Noise Reduction**

To reduce the image noise and improve picture quality when receiving weak signals.

Press this key to select **Off** or **Automatic**.

When **Automatic** is selected, the image noise reduction is set automatically.



#### **Continuous subtitles**

TV channels with teletext often transmit certain programmes with subtitled. Switch on teletext and select the proper subtitle page from the index.

Press  to store the subtitle page.

Switch off teletext.

Every time a programme of the selected TV channel is subtitled, the subtitled will be available for that TV channel.

Press  to switch the subtitles **On** or **Off**.

When switched on and only the subtitle symbol appears, there are no subtitles available for that programme.

#### **Permanent programme number Screen information**

Press for 5 seconds to activate/de-activate the continuous display of the programme number. Press briefly to display information about the selected TV channel and programme, the sound reception, the selected DNR setting and picture format and the remaining time set with the sleep timer.

#### **Strobe**

Press this key to reproduce the picture image by image.

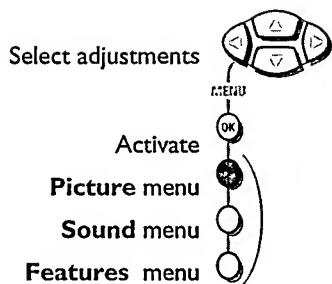
Press the  key to have a faster speed.

Press  again to switch off the strobe function.

#### **Freeze**

To activate/de-activate the frozen picture.

# Use of the menus



PICTURE
<b>Contrast</b>
Brightness
Colour
Sharpness
Tint
Digital Scan
Contrast Plus

FEATURES
Store PP
Sleeptimer
Message
Child Lock
Animation demo

SOUND
<b>Volume</b>
Balance
Treble
Bass
Loudness
Headphone

HEADPHONE
Volume
<b>Dual</b>

- 1 Press the red, green or yellow colour key to display/cancel the PICTURE, SOUND or FEATURES menu.
- 2 Use the keys to select the menu item.
- 3 Use the OK key to activate.
- 4 Press the same colour key again to return or to switch menu off.

## Picture menu

When you are watching a TV channel in the NTSC system, or if a NTSC peripheral is connected to one of the euroconnectors, the option Hue also appears and can be adjusted.

### Sharpness

You can adjust the Sharpness for each TV channel separately.

### Tint

- Select the colour temperature: **Normal, Warm or Cool**.

### Digital Scan (Line Flicker Reduction)

In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.

- Press the keys to select **On** or **Off**.

### Contrast Plus

To make the contrast between darker and brighter picture parts more noticeable switch the Contrast Plus function on.

In certain circumstances it may be preferred to switch Contrast Plus off.

- Store the modified adjustments for Contrast, Brightness, Colour, Tint, Digital Scan and Contrast Plus for all TV channels with **Store PP** in the FEATURES menu.

## Sound menu

### Switch Loudness on or off

When Loudness On is selected, the low and high frequencies are amplified so that the natural balance is restored when listening at a low volume.  
The selected setting for Loudness is stored for all TV channels.

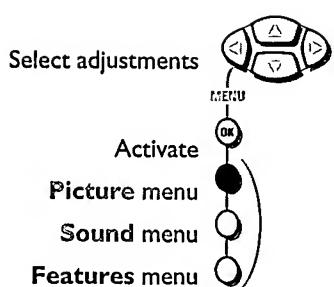
### Headphone

See Connect Peripheral Equipment, p. 16 for the connection of the headphone.

- Select **Dual** to choose between the dubbed or original language when the TV channel broadcasts in 2 languages.
- Store the modified adjustments for Volume, Balance, Treble and Bass for all TV channels with **Store PP** in the FEATURES menu.

### To exit from the menus

- Press the corresponding red, green or yellow colour key.



## Features menu

- ① Press the yellow colour key to display/cancel the FEATURES menu.
- ② Use the keys to select the menu item.
- ③ Use the **OK** key to activate.

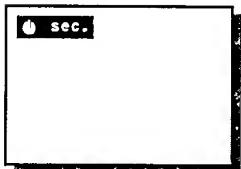
### Store PP

The adjustments of Contrast, Brightness, Colour, Tint, Digital Scan and Contrast Plus made in the picture menu and the adjustments of Volume, Balance, Treble, Bass and Loudness made in the sound menu can be stored in memory for all the TV channels.

### Sleep timer

With the sleep timer you can set a time period after which the TV should switch itself off to standby.

The counter runs from **Off** up to **180 min.** or from **180 min.** down to **Off**. One minute before the TV is set to go to standby, the remaining minute appears on screen. You can always switch off your set earlier or change the set time.



### Child Lock

If the child lock is on, the TV can only be switched on with the remote control. The - and + keys on top of the TV cannot be used to select a TV channel. In this way you can prevent unauthorised use of your TV.

If the message **Child Lock On** appears, the child lock must be switched off before you can use the - and + keys on the TV to select a TV channel.

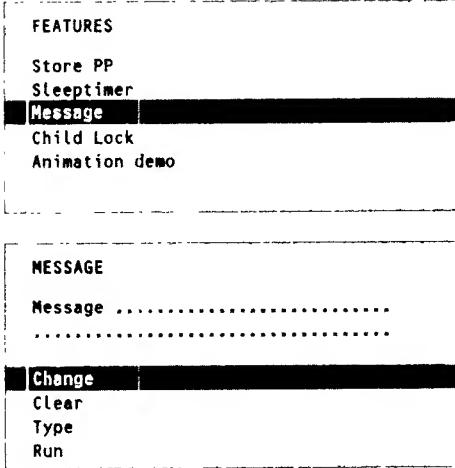
### Animation demo

Selecting this menu item starts a continuous loop of an animation introducing your TV. This animation has no operational function.

Press the **OK** key to stop the animation.

### FEATURES

Store PP  
Sleep timer  
Message  
Child Lock  
Animation demo



### Message

With this function you can enter a personal message on 2 lines which will be displayed automatically when the set is switched on from standby.  
For example: I'll be late this evening. Don't wait for dinner.

### Change

- Select with the  $\triangle \nabla$  keys the letter or number you want to enter.
- Select with the  $\triangleright$  key the next position.
- Press the **OK** key when you have entered the complete message.

### Clear

- Press the **OK** key to remove a previous message.

### Type

- Press the  $\triangle \nabla$  keys to select the way the message will be displayed : **Wipe, Slide, Fall or Fade.**  
The Fade display is a randomly selection of the three other display types.

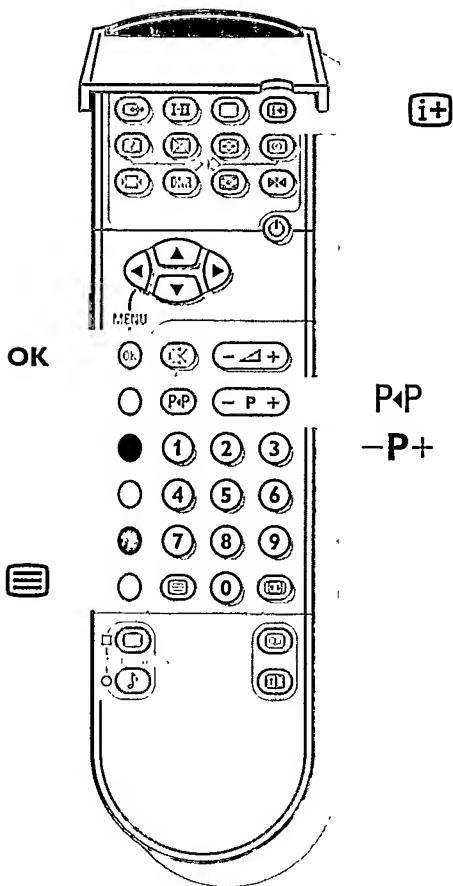
### Run

- Press the  $\triangle \nabla$  keys to select the display frequency : **Continuous, Once or No.**

### Display message

- Switch the TV to standby.  
The message appears on the screen when the TV is switched on again.  
If you selected **Once**, the message will disappear from the screen after 30 seconds.  
If you selected **Continuous**, the message will appear on the screen until the display frequency is switched off in the Message menu.  
The message does NOT appear when Continuous Subtitles have been switched **On**. See p. 9.

# Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the main index (usually p. 100).

Depending on the TV channel, teletext is transmitted in different systems. The colours used in the options line correspond with the colour keys of your remote control.

## About the Easy Text system

The Easy Text system considerably reduces the waiting time (on condition the teletext broadcast of the particular TV channel is switched on for at least half a minute) by :

- a **direct selection** of previous and following pages which are in transmission and of the pages referred to in the options line
- a **habit watcher list**: frequently used pages are put in a list of preferred pages, so that they are immediately available afterwards
- the **precapturing of the page numbers** referred to in the displayed page
- the **precapturing of all the subpages**.

## Switch Teletext on and off

- Press to switch on or off the teletext. The main index page appears on the screen together with two information lines at the top and one option line at the bottom of the screen.

## Select a Teletext page

### With the digit keys

- Enter the desired page number with the digit keys. The page counter seeks the page or the page appears immediately when the page number has been stored in the memory. A message appears when you have entered a non-existent or an incorrect page number. Page numbers beginning with 0 or 9 do not exist. Choose another number.

### With the option line

- Select with the colour keys, corresponding to the coloured options at the bottom of the screen, the desired subject.

## Quickly run through the teletext pages

- Press or the key to run through the previous or the following pages.

## Select the previously selected txt page

- Press the P-P key.

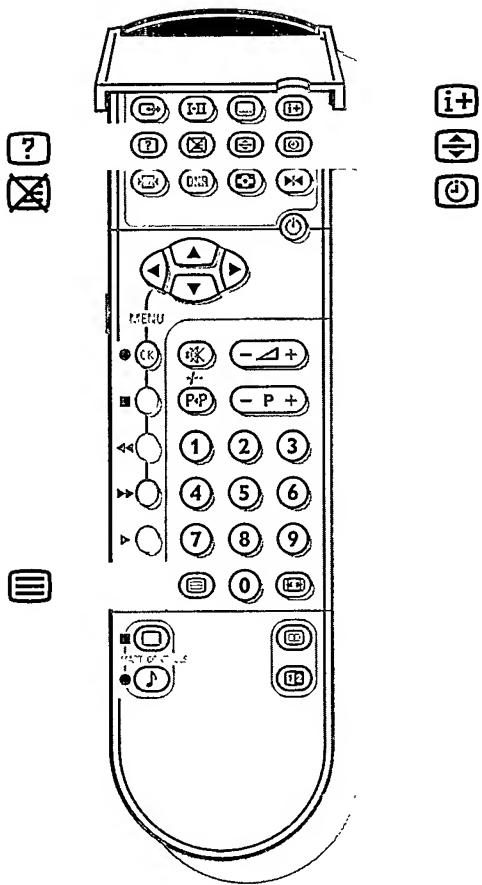
## Select the index teletext page

- Press the white colour key to display the main index (usually p.100).

Only for T.O.P teletext broadcasts :

T.O.P orders the pages in categories and adds other possibilities of enhancing ease of use.

- Press    A T.O.P. overview of the teletext subjects available appears. Not all TV channels broadcast T.O.P. teletext. When the teletext system is not T.O.P. teletext, a message appears at the top of the screen.
- Select with the  keys the desired subject and press the **OK** key.



## Select subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.

The coloured number in the first information line refers to the displayed subpage.

The other subpages can be selected in 2 ways :

### 1. With the keys.

The other subpage numbers appear in white as soon as the transmission has found them. They are stored in the memory so that they are available while the teletext page is on screen.

- Select with the  keys the previous or the following subpage.

### 2. With the key.

Enter the subpage number yourself.

- Press  . Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.

The TV searches for the selected subpage.

Automatically rotating subpages:

- Press  again to cancel the entered digit for the subpage. Now the subpages rotate automatically.

- Press  again to select the subpages with the  keys again.

## Special teletext functions

### Mix / Interrupt

- Press  to overlay the teletext page on the TV programme.
- Press  again to de-activate the screen overlay.

The display  indicates that you are still in the teletext mode. You can select a page number. When the page has been found, the page number appears on the screen.

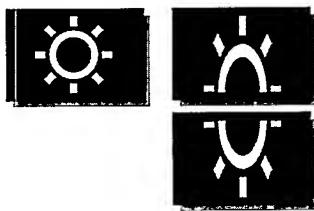
- Press  again to display the teletext page.

### Enlarge

- Press  repeatedly to display the upper part, the lower part and then to return to the normal page size. When the upper part is displayed, you can scroll the text line per line by using the  keys.

### Reveal

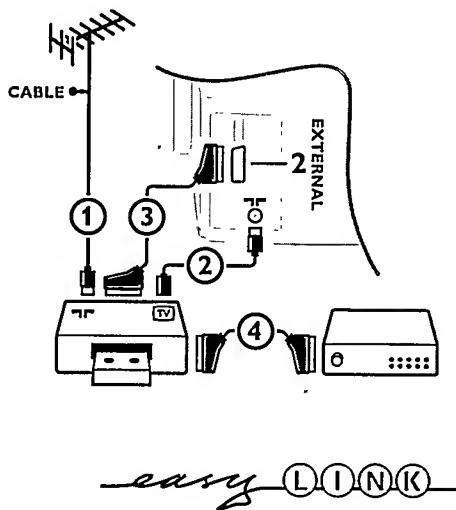
- Press  to reveal/conceal the hidden informations, such as solutions to riddles and puzzles.



# Connect Peripheral Equipment

## CONNECTION DIAGRAMS

Amplifier  
CD-i/Photo CD  
Decoder/Descrambler  
VCR1  
VCR2  
Antenna



There is a wide range of audio and video equipment that can be connected to your TV. The following connection diagrams show you how to connect it. See also the menu item Connection diagrams in the **INSTALLATION** menu where the different connection possibilities are shown. Each time a menu item is selected a graphic is shown of the connection. Those graphics have no operational function.

## Video recorder

- Connect the aerial cables ①, ② and, to obtain a better picture quality, eurocable ③ as shown opposite.

*If your video recorder is provided with the EasyLink function, the eurocable supplied with it, should be connected to EXTERNAL 2 to benefit from the EasyLink functionality.*

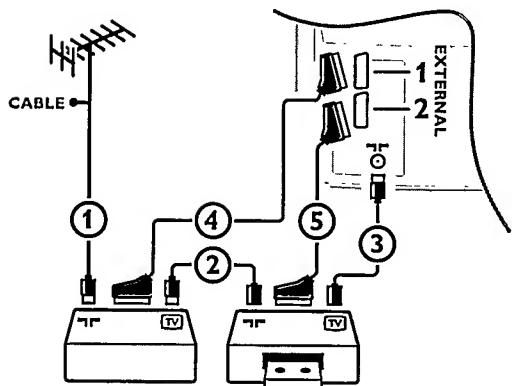
You have to do the following if you do not connect the eurocable ③.

### Search for and store the test signal of the video recorder

- Unplug the aerial cable ① from the aerial socket  $\text{TV}$  of your video recorder.
- Switch on your TV and put the video recorder on the test signal. (See the handbook for your video recorder.)
- Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Installation, Searching for and storing TV channels, Manual Installation, p. 5.
- Store the test signal either under programme number 0 or between 90 and 99.
- Replace the aerial cable in the aerial socket  $\text{TV}$  of your video recorder after you have stored the test signal.

### Decoder and video recorder

- Connect a eurocable ④ to your decoder and to the special euroconnector of your video recorder. See also the video recorder handbook. See Define Decoder/Descrambler prog. numbers, p. 7. You can also connect your decoder directly to EXTERNAL 1 or 2 with a eurocable .

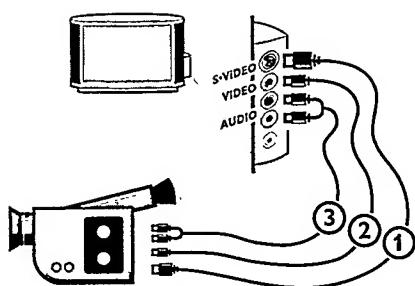


## Video recorder and other peripherals (except CD-i/Photo CD)

- Connect the aerial cables ①, ② and ③ as shown opposite. Better picture quality can be obtained if you also connect eurocable ⑤ to EXTERNAL 2 and a eurocable ④ to EXTERNAL 1.
- Look for the test signal of your peripheral in the same way as you do for a video recorder.

When a video recorder is connected to EXTERNAL 1 you can only record a programme from your TV.

Only when a video recorder is connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment. See Record with your video recorder, p. 18.

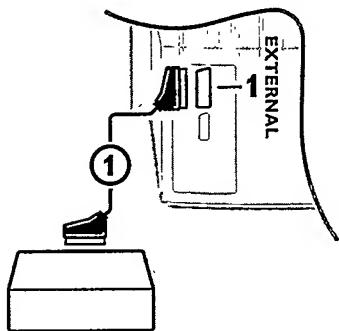


## Camera and camcorder

- Connect your camera or camcorder at the right side of your TV.
- Connect the equipment to **VIDEO ②** and **AUDIO L ③** for mono equipment.
- Press the **I-II** key under the door of the remote control repeatedly to select the sound coming from one or both loudspeakers of your TV.
- For stereo equipment, also connect **AUDIO R ③**.  
S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VHS input ①** and **AUDIO inputs ③**.

## Other equipments

Connect the eurocable **①** to **EXTERNAL 1** as shown opposite.



### Only for CD-i and Photo CD :

- Press **?** and **OK** at the same time.

#### INSTALLATION

Menu language  
Country

Automatic Installation  
Manual Installation  
Give name  
Reshuffle  
Favourite programmes

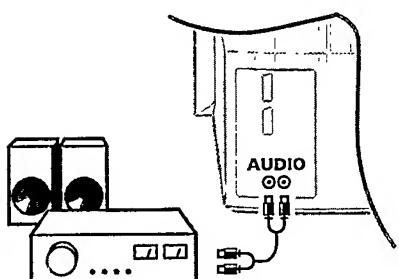
Connection diagrams

#### SETUP

**CD-i/Photo CD**  
Decoder/Descrambler  
Information Line  
INSTALLATION

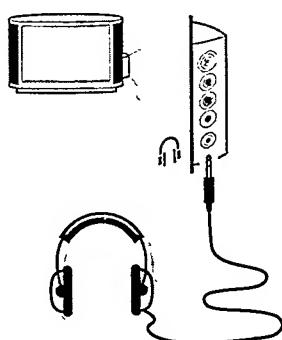
#### SETUP

- Select **CD-i/Photo CD Present** in the **Setup** menu of the **INSTALLATION** menu.  
This offers you optimum picture quality for your CD-i or Photo CD.
- Keep the red **MENU** key pressed to switch off all menus.



## Audio equipment / Amplifier

- Connect the audio cables to the audio input of your audio equipment and to **AUDIO L** and **R** at the back of your TV.  
You can listen to your TV sound via your audio equipment.



## Headphone

- Insert the plug into the headphone socket **①** at the right side of the TV.
- Press **OK** on the remote control to switch off the internal loudspeakers of the TV.  
*The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.*

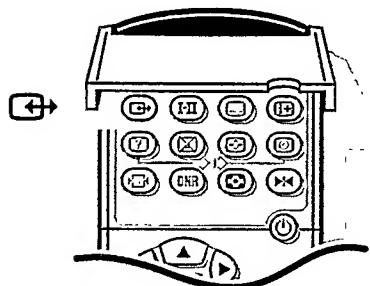
In the **SOUND** menu select **Headphone** to adjust the headphone volume and to select dubbed or original language (when the TV channel broadcasts in two languages) for your headphone sound. See p. 10.

If you want to connect more equipment to your TV, consult your dealer.

## To select connected equipment



If the TV is connected to a video recorder with the EasyLink function, in some cases the TV will be switched on, even when the TV was in standby. (E.g. playback tape,...) This is not possible when Child Lock On is selected.



#### **Equipment connected with an aerial cable only :**

- Select the programme number under which you have stored the test signal with the digit keys.

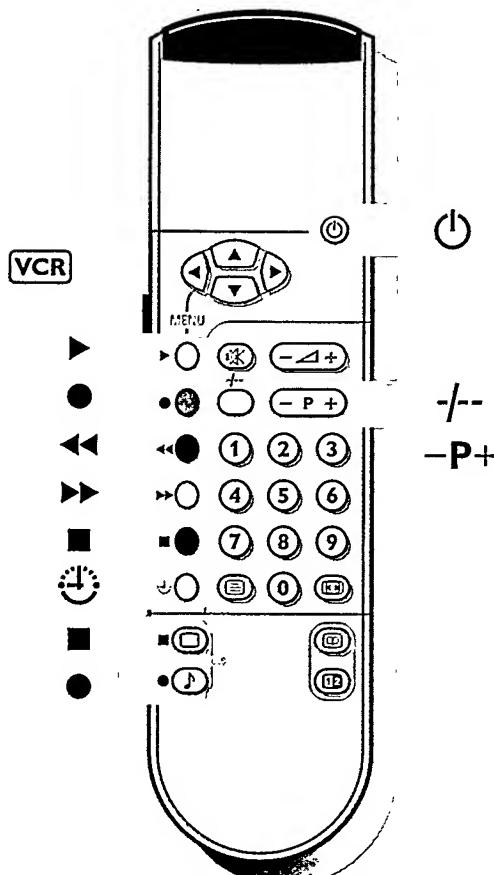
**Equipment connected to a euroconnector or to the right side of the TV:**

- Press the  key repeatedly to select EXT1, EXT2 or FRONT, according to where you connected your equipment at the back or the right side of your TV.

*Remark : Most equipment (decoder, video recorder) carries this switching itself.*

**Do you want to watch TV channels again ?**

- Enter the programme number of the TV channel which you want to watch with the digit keys.



## **Video recorder keys**

Most of the video equipment from our range of products can be operated with the remote control of the TV.

**Press simultaneously on the VCR key and:**

- ▶ ○ for play,
  - ○ for record,
  - ◀○ for rewind,
  - ▶○ for fast forward,
  - for stop,
  - ⌚○ for programming (on certain models),
  - 
  - for selecting 1- or 2- digit programme numbers from the video recorder tuner,
  - (P+) for fast programme selection from the video recorder tuner,
  - 0 to 9 to select a programme number from your video recorder tuner,
  - to switch the video recorder to standby

These keys function with video recorders which use the RC5 signalling standard.



If your video recorder has the EasyLink function the ■ □ and ● ♫ keys for record and stop can be operated in the TV mode.

## Record with your video recorder without EasyLink

To record S-VHS quality, connect a S-VHS peripheral directly to the video recorder.

### 1. Record a TV programme

using only an aerial cable

- Select the programme number on your video recorder.
- Set your video recorder to record.  
(See the handbook for your video recorder.)

*Switching programme numbers on your TV does not disturb recording !*

using a eurocable connected to the euroconnector EXTERNAL 2

*With a video recorder connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment.*

- Select the programme number or external input on the TV.
- Select the right external on your video recorder.
- Set your video recorder to record.  
You record what you are watching on the screen.

*Do not switch programme numbers or do not switch off your TV when you are recording !*

using a eurocable connected to the euroconnector EXTERNAL 1

*With a video recorder connected to EXTERNAL 1 you can only record a TV channel.*

- Select the programme number on the TV.
- Set your video recorder to record.

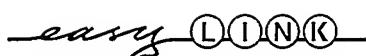
*Switching to a programme from a connected peripheral equipment does not disturb recording .*

### 2. Record a programme on your video recorder connected to EXTERNAL 2 from Audio/Video equipment connected to EXTERNAL 1 or to the right side

- Switch on the equipment.
- Select the right external on your video recorder.
- Set your video recorder to record.  
You record what you are watching on the screen.

*Do not switch programme numbers or do not switch off your TV when you are recording !*

## Record with a video recorder with EasyLink



If you have connected a S-VHS video recorder provided with the EasyLink function, you can record S-VHS-quality from a S-VHS peripheral connected to the right side of the TV. (E.g. from a S-VHS camcorder.)

In TV mode it is possible to start a direct recording of the programme which is being displayed on the TV screen.

- Press at the same time the VCR key on the left side and the  $\bullet$  key of the remote control.  
The video recorder switches on when it was in standby and a message of what is being recorded appears at the bottom of the screen.  
The video recorder starts recording the programme that appears on the screen.
- Press the  $\blacksquare$  key to stop the recording.

When recording a programme from a peripheral connected to EXTERNAL 1 or FRONT, you can not select another TV programme on the screen.

To watch TV programmes again, press the programme number you want to select twice . Then the recording is stopped and your video recorder switches to standby. If you switch to standby during recording a programme from a peripheral connected to EXTERNAL 1 or FRONT, the blinking red lamp on the front of your TV indicates that you are still recording. The blinking stops after the recording is finished.

# Tips

## Care of the screen

Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

## Poor Picture

Have you selected the correct TV system? Is your TV or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.?

Mountains or high buildings can cause double pictures or ghost images.

Sometimes you can improve the picture quality by changing the direction of the outside aerial.

Is the picture or teletext unrecognisable?

Check if you have entered the correct frequency. See Installation, p. 5.

Are brightness and contrast out of adjustment? Press the key.

Sometimes poor picture quality is possible when having activated a S-VHS camera or camcorder connected to the right side of your TV and another peripheral is connected to EXT1 or EXT2 at the same time. In this case switch off one of the other peripherals.

## No picture

Is the aerial connected properly? Are the plugs tightly connected in the aerial socket? Is the aerial cable in good condition and does it have suitable plugs? Are the connection facilities to a possible second TV in good condition? If in doubt, consult your dealer.

## Remote control

If your TV no longer responds to the remote control, the batteries may be dead.

You can still use the Menu key and the -/+ keys at the top of your TV.

## Menu

Have you selected the wrong menu? Press the same key again to exit from the menu.

## No solution

Switch your TV off and then on again.

**Never attempt to repair a defective TV yourself.**

Check with your dealer or call a TV technician.

## End of life directives

Your new TV contains materials which can be recycled and reused.

At the end of life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimise the amount of materials to be disposed of.

Please ensure you dispose of your old TV according to local regulations.

## How to dispose of dead batteries ?

The batteries supplied do not contain the heavy metals mercury and cadmium.

Nevertheless in many countries dead batteries may not be disposed of with your household waste. Please ensure you dispose of dead batteries according to local regulations.

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# Lexicon

## 100 Hz

100 Hertz provides a superior solution to the problem of picture flicker which is particularly noticeable with larger screen sizes. In a conventional TV, the picture area is scanned 50 times a second (50 Hertz) – a frequency which is still detectable by the human eye in the form of a flickering picture. In 100 Hertz sets, the picture area is scanned at a rate of 100 times per second (100 Hertz). At this frequency, the eye cannot detect flicker, resulting in a clearer picture which is more relaxing to the eye.

## Automatic Channel Installation (ACI)

Automatically installs all TV channels in the same order as offered by your cable company, provided of course that the data is transmitted. It also automatically includes programme number and programme name. With ACI, channel installation is fully automatic, simple and fast.

## Child Lock

Feature to prevent children from viewing unwanted channels.

## Digital Scan

If you look at a television screen you will see small imperfections in the picture caused by line vibration. Digital Scan (an internal process) removes interline flicker. When combined with 100 Hz, you will see a totally stable image.

## DNR

Digital Noise Reduction. By encoding signals digitally in 100 Hz sets with Digital Scan it is possible to clean up picture noise. This is especially beneficial in poor signal areas and when viewing poor quality video tapes.

## Easy Link

Digital 'intelligent' ESI bus-system between audio components in HiFi systems and between TV and VCR. (Scart connection required). Turns source selection and control into a one-button operation.

## Easy Text

Teletext memory that automatically memorises Teletext pages and gives you instant access to them.

## Euroconnector

A 21-pins connector system enabling you to simply connect various types of audio/video and computer equipment.

## Incredible Surround

Feature to enrich the sound performance of your TV set or audio equipment. It enhances the stereo effect by giving the impression that the speakers are positioned much wider apart than they actually are.

## Menu

On-screen display of functions and facilities in a well-organised survey, which you can select using your remote control.

## NTSC

The broadcasting system used in the USA, Japan and parts of South America and Southeast-Asia.

## Smart Picture and Sound Controls

Keys on the remote control to select predefined picture and sound settings.

## Sleeptimer

Function with which you can set a time period after which the TV should switch itself off to standby.

## Picture Freeze

TV mode which allows you to "freeze" a certain image in order to study a specific detail at ease, e.g. to make notes of certain programme information like phone numbers.

## Teletext

See also Easy Text

WST: World Standard Teletext.

FLOF: Full Level one Features. System applied by the BBC, RVE.... that provides a fast access to the teletext pages.

TOP: Table of (Teletext) Pages. German system for an easy access to the teletext pages.

## Tint (or Hue in NTSC)

TV-function to modify the general colour balance between cool and warm and to adjust it according to your personal preference.

## Table of TV frequencies.

Frequenztabelle der Fernsehsender.  
Liste des fréquences des émetteurs.  
Frequentietabel TV-Zenders.

Tabella delle frequenze delle trasmittenti.  
Lista de las frecuencias de las emisoras.  
Lista das frequências dos emissores.  
Liste over TV senderne.

Tabell over TV-frekvenser.  
Tabel over TV-frekvenser.

## Tabell över TV-frekvenser.

TV-taajuustaulukko.  
Κατάλογος συχνοτήτων πομπών.

### EUROPE

CHANNEL	FREQ (MHz)
E2	48.25
E3	55.25
E4	62.25
E5	175.25
E6	182.25
E7	189.25
E8	196.25
E9	203.25
E10	210.25
E11	217.25
E12	224.25
S1	105.25
S2	112.25
S3	119.25
S4	126.25
S5	133.25
S6	140.25
S7	147.25
S8	164.25
S9	161.25
S10	168.25
S11	231.25
S12	238.25
S13	245.25
S14	252.25
S15	259.25
S16	266.25
S17	273.25
S18	280.25
S19	287.25
S20	294.25
H1	303.25
H2	311.25
H3	319.25
H4	327.25
H5	335.25
H6	343.25
H7	351.25
H8	359.25
H9	367.25
H10	383.25
H11	391.25
H12	399.25
H13	407.25
H14	415.25
H15	423.25
H16	431.25
H17	439.25
H18	447.25
H19	457.25
H20	471.25
H21	479.25
H22	487.25
H23	495.25
H24	503.25
H25	511.25
H26	519.25
H27	527.25
H28	535.25
H29	543.25
H30	551.25
H31	559.25
H32	567.25
H33	575.25
H34	583.25
H35	591.25
H36	599.25
H37	607.25
H38	615.25
H39	623.25
H40	631.25
H41	639.25
H42	647.25
H43	655.25
H44	663.25
H45	671.25
H46	679.25
H47	687.25
H48	695.25
H49	703.25
H50	711.25
H51	719.25
H52	727.25
H53	735.25
H54	743.25
H55	751.25
H56	759.25
H57	767.25
H58	775.25
H59	783.25
H60	791.25
H61	799.25
H62	807.25
H63	815.25
H64	823.25
H65	831.25
H66	839.25
H67	847.25
H68	855.25

### EASTERN EUROPE

CANAL	FREQ (MHz)
R1	49.75
R2	59.25
R3	77.25
R4	85.25
R5	93.25
R6	175.25
R7	183.25
R8	191.25
R9	199.25
R10	207.25
R11	215.25
R12	223.25
S1	105.25
S2	112.25
S3	119.25
S4	126.25
S5	133.25
S6	140.25
S7	147.25
S8	164.25
S9	161.25
S10	168.25
S11	231.25
S12	238.25
S13	245.25
S14	252.25
S15	259.25
S16	266.25
S17	273.25
S18	280.25
S19	287.25
S20	294.25
H1	303.25
H2	311.25
H3	319.25
H4	327.25
H5	335.25
H6	343.25
H7	351.25
H8	359.25
H9	367.25
H10	375.25
H11	383.25
H12	391.25
H13	399.25
H14	407.25
H15	415.25
H16	423.25
H17	431.25
H18	439.25
H19	447.25
H20	455.25
H21	463.25
H22	471.25
H23	479.25
H24	487.25
H25	495.25
H26	503.25
H27	511.25
H28	519.25
H29	527.25
H30	535.25
H31	543.25
H32	551.25
H33	559.25
H34	567.25
H35	575.25
H36	583.25
H37	591.25
H38	599.25
H39	607.25
H40	615.25
H41	623.25
H42	631.25
H43	639.25
H44	647.25
H45	655.25
H46	663.25
H47	671.25
H48	679.25
H49	687.25
H50	695.25
H51	703.25
H52	711.25
H53	719.25
H54	727.25
H55	735.25
H56	743.25
H57	751.25
H58	759.25
H59	767.25
H60	775.25
H61	783.25
H62	791.25
H63	799.25
H64	807.25
H65	815.25
H66	823.25
H67	831.25
H68	839.25
H69	847.25

### FRANCE

CANAL	FREQ (MHz)
2	55.75
3	60.50
4	63.75
5	176.0
6	184.0
7	192.0
8	200.0
9	208.0
10	216.0
B	116.75
C	128.75
D	140.75
E	152.75
F	164.75
G	176.75
H	188.75
I	200.75
J	212.75
K	224.75
L	236.75
M	248.75
N	260.75
O	272.75
P	284.75
Q	296.75
H1	303.25
H2	311.25
H3	319.25
H4	327.25
H5	335.25
H6	343.25
H7	351.25
H8	359.25
H9	367.25
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H24	487.25
H25	495.25
H26	503.25
H27	511.25
H28	519.25
H29	527.25
H30	535.25
H31	543.25
H32	551.25
H33	559.25
H34	567.25
H35	575.25
H36	583.25
H37	591.25
H38	599.25
H39	607.25
H40	615.25
H41	623.25
H42	631.25
H43	639.25
H44	647.25
H45	655.25
H46	663.25
H47	671.25
H48	679.25
H49	687.25
H50	695.25
H51	703.25
H52	711.25
H53	719.25
H54	727.25
H55	735.25
H56	743.25
H57	751.25
H58	759.25
H59	767.25
H60	775.25
H61	783.25
H62	791.25
H63	799.25
H64	807.25
H65	815.25
H66	823.25
H67	831.25
H68	839.25
H69	847.25

### ITALY

CANALE	FREQ (MHz)
A	53.75
B	62.25
C	82.25
D	175.25
E	183.75
F	192.25
G	201.25
H	210.25
H1	217.25
S1	105.25
S2	112.25
S3	119.25
S4	126.25
S5	133.25
S6	140.25
S7	147.25
S8	154.25
S9	161.25
S10	168.25
S11	231.25
S12	238.25
S13	245.25
S14	252.25
S15	259.25
S16	266.25
S17	273.25
S18	280.25
S19	287.25
S20	294.25
H1	303.25
H2	311.25
H3	319.25
H4	327.25
H5	335.25
H6	343.25
H7	351.25
H8	359.25
H9	367.25
H10	375.25
H11	383.25
H12	391.25
H13	399.25
H14	407.25
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H26	503.25
H27	511.25
H28	519.25
H29	527.25
H30	535.25
H31	543.25
H32	551.25
H33	559.25
H34	567.25
H35	575.25
H36	583.25
H37	591.25
H38	599.25
H39	607.25
H40	615.25
H41	623.25
H42	631.25
H43	639.25
H44	647.25
H45	655.25
H46	663.25
H47	671.25
H48	679.25
H49	687.25
H50	695.25
H51	703.25
H52	711.25
H53	719.25
H54	727.25
H55	735.25
H56	743.25
H57	751.25
H58	759.25
H59	767.25
H60	775.25
H61	783.25
H62	791.25
H63	799.25
H64	807.25
H65	815.25
H66	823.25
H67	831.25
H68	839.25
H69	847.25

### GB

The frequencies used by a cable company may differ from the frequencies on the table. Consult your cable company or your dealer for detailed information.

### D

In Kabelfernsehanlagen können Abweichungen von den in den Frequenztabellen aufgeführten Frequenzen vorkommen. Bitte wenden Sie sich an Ihren Fachhändler oder Ihre Kabelfernsehgesellschaft, die Ihnen die zutreffenden Frequenzen mitteilt.

### F

Les fréquences utilisées par une société de télédistribution peuvent être différentes de celles sur la liste des fréquences. Consultez votre société de télédistribution ou votre revendeur pour des informations plus détaillées.

### P

As frequências utilizadas por uma sociedade de teledistribuição podem ser diferentes das indicadas na lista de frequências. Consultar a sociedade de teledistribuição ou o vendedor para informações mais detalhadas.

### S

Frekvensene som benyttes på et kabelnett kan avvike fra de som er oppført i tabellen. Kontakt ditt kabel-TV selskap eller din forhandler for nærmere opplysninger.

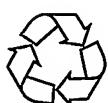
### SF

Kaapeliyhtiöiden käyttämät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhtiöstä tai myyjältä.

### GR

Οι συγχρόνησης που χρησιμοποιούνται από μια εταιρεία πηλεμάδοσης είναι διαφορετικές από αυτές που περιέχει ο κατάλογος. (Συμβουλεύεται την εταιρεία πηλεμάδοσης ή τον πωλητή για λεπτομερέστερες πληροφορίες).

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